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Application No. 10/655,162
Reply to Office Action of 10/24/05

AMENDMENTS TO THE CLAIMS

1-20. (Cancelled)

21. (Currently Amended) A process for producing a resin, comprising

reacting rosin with a terpene-phenol resin in the presence of a Bronsted acid, wherein the rosin is at least one member selected from the group consisting of wood rosin, tall oil rosin, and gum rosin and wherein the rosin and terpene-phenol are reacted together in a rosin:terpene-phenol weight ratio that is about 50:50 or greater.

22. (Previously Presented) The process according to Claim 21, wherein the terpene-phenol resin has a softening point of from 125 to 150 °C.

23. (Currently Amended) The process according to Claim 21, wherein the rosin and terpene-phenol are reacted together in a rosin:terpene-phenol weight ratio of from about 50:50 ~~40:60~~ to 60:40.

24. (Previously Presented) The process according to Claim 21, wherein the rosin and terpene-phenol are reacted together in a rosin:terpene-phenol weight ratio of about 50:50.

25. (Currently Amended) The process according to Claim 21, wherein the Bronsted acid is ~~sufonic~~ sulfonic acid, sulfuric acid, or mixtures thereof.

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26. (Previously Presented) The process according to Claim 21, wherein the Bronsted acid is para-toluene sulfonic acid, sufonic acid, sulfuric acid, or mixtures thereof.

27. (Previously Presented) The process according to Claim 21, wherein the rosin is wood rosin.

28. (Previously Presented) The process according to Claim 21, wherein the rosin is tall oil rosin.

29. (Previously Presented) The process according to Claim 21, wherein the rosin is gum rosin.

30. (Previously Presented) The process according to Claim 21, wherein the rosin is Chinese gum rosin.

31. (Previously Presented) A resin produced by the process according to Claim 21, wherein the resin has a softening point of from 115 to 150 °C.

32. (Previously Presented) A resin produced by the process according to Claim 21, wherein the resin has an acid number of from 10 to 85.

33. (Previously Presented) A resin produced by the process according to Claim 21, wherein the resin has a Mw of from 550 to 1400.

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34. (Previously Presented) A resin produced by the process according to Claim 21, wherein the resin has a Mn of from 405 to 750.

35. (Previously Presented) A resin produced by the process according to Claim 21, wherein the resin has a neat Gardner color of from 6 to 12.

36. (Previously Presented) A resin produced by the process according to Claim 21, wherein the resin has an acid number of from 10 to 50.

37. (Currently Amended) A process for producing a resin, comprising

reacting at least one terpene with at least one phenolic compound to form a terpene-phenol resin; and then

reacting rosin with the terpene-phenol resin in the presence of a Bronsted acid, wherein the rosin is at least one member selected from the group consisting of wood rosin, tall oil rosin, and gum rosin and wherein the rosin and terpene-phenol are reacted together in a rosin:terpene-phenol weight ratio that is about 50:50 or greater.

38. (Previously Presented) The process according to Claim 37, wherein the terpene is selected from the group consisting of limonene, dipentene, α-pinene, β-pinene, and δ-3-carene.

39. (Previously Presented) A resin produced by the process according to Claim 37.

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40. (Currently Amended) A process for producing a resin, the process comprising reacting rosin with a terpene-phenol resin in the presence of a Bronsted acid, wherein the rosin and terpene-phenol are reacted together in a rosin:terpene-phenol weight ratio ~~of from 40:60 to 60:40~~ that is about 50:50 or greater.

41. (Previously Presented) A resin produced by the process according to Claim 40.

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